

The acquisition of geospatial information by small UAV

TANAKA, Kei^{1*} ; KONDOH, Akihiko²

¹Japan Map Center, ²Center for Environmental Remote Sensing, Chiba University

The recent advances of MEMS devices(GPS, gyro and acceleration sensor) has made possible low-cost and miniaturization. Thereby, multi-copter mounted with these sensors have appeared. That it requires a high level of technology and knowledge in the handling of RC traditional helicopter, beginners to steer is difficult. To enable even beginners to get easily geospatial information of high-resolution by multicopter.

In this study, we examined method of acquiring geospatial information(orthophoto, DSM, NDVI, and temperature distribution) by using small UAV.

Keywords: UAV (Unmanned Aerial Vehicle), SfM (Structure from Motion), DSM, orthophoto, NDVI, temperature distribution